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PUBLICATIONS

(When requesting reprints, please order by number)

78. Amino-Hexose-Reductones as Antioxidants. I. Vegetable Oils. C. D. Evans, Helen A. Moser, Patricia M. Cooney, and J. E. Hodge. J. Am. Oil Chemists' Soc. 35, 84-88 (1958).

79. Behavior of the 11S Protein of Soybeans in Acid Solutions. I. Effects of pH, Ionic Strength and Time on Ultracentrifugal and Optical Rotatory Properties. W. J. Wolf, J. J. Rackis, A. K. Smith, H. A. Sasame, and G. E. Babcock. J. Am. Chem. Soc. 80, 5730-5735 (1958).

80. *Biochemistry of the Sphingolipides. X. Phytoglycolipide, A Complex Phytosphingosine-Containing Lipide from Plant Seeds. H. E. Carter, W. D. Celmer, D. S. Galanos, R. H. Gigg, W. E. M. Lands, J. H. Law, Katherine L. Mueller, T. Nakayama, H. H. Tomizawa, and Evelyn Weber. University of Illinois, Urbana, Illinois. J. Am. Oil Chemists' Soc. 35, 335-343 (1958).

81. *Biochemistry of the Sphingolipides. XI. Structure of Phytoglycolipide. H. E. Carter, R. H. Gigg, J. H. Law, T. Nakayama, and Evelyn Weber. University of Illinois, Urbana, Illinois. J. Biol. Chem. 233(6), 1309-1314 (1958).

82. Changes in the Composition of Soybeans on Sprouting. L. L. McKinney, F. B. Weakley, R. E. Campbell, and J. C. Cowan. J. Am. Oil Chemists' Soc. 35, 364-366 (1958).

---

*Reports of research work done by outside agencies under contract with the U. S. Department of Agriculture and supervised by the Northern Utilization Research and Development Division of the Agricultural Research Service.

83. *†Chemical Composition and End Groups of the Soybean Hemagglutinin. S. Wada, M. J. Pallansch, and I. E. Liener. University of Minnesota, St. Paul, Minnesota. J. Biol. Chem. 233(2), 395-400 (1958).

84. Comparative Study of Wheat Flour Phosphatides. L. H. Mason and A. E. Johnston. Cereal Chem. 35, 435-448 (1958).

85. *†Copolymerization of Trialkyl Aconitates with Vinylidene Chloride. C. S. Marvel and Eloisa B. Mano. University of Illinois, Urbana, Illinois. J. Polymer Sci. 31, 165-171 (1958).

86. Countercurrent Distribution of Sorghum Lipides in Leaf and Stem Extract. M. C. Burnett, R. L. Lohmar, and H. J. Dutton. J. Agr. Food Chem. 6, 374-377 (1958).

87. Coupled Oxidation of Carotene and Linoleate Catalyzed by Lipoxidase. H. L. Tookey, R. G. Wilson, R. L. Lohmar, and H. J. Dutton. J. Biol. Chem. 230(1), 65-72 (1958).

88. Determination of Tocopherol in Oxidized Fats. Interference from Heat-Formed Reducing Substances in Highly Oxidized Fats. E. N. Frankel, Patricia M. Cooney, C. D. Evans, and J. C. Cowan. J. Am. Oil Chemists' Soc. 35, 600-602 (1958).

89. Development of Color in Fats Stabilized with Amino-Hexose-Reductones. Patricia M. Cooney, J. E. Hodge, and C. D. Evans. J. Am. Oil Chemists' Soc. 35, 167-171 (1958).

90. Effect on Crumb Firmness. I. Mono- and Diglycerides. C. W. Ofelt, Majel M. MacMasters, E. B. Lancaster, and F. R. Senti. Cereal Chem. 35, 137-141 (1958).

91. Effect on Crumb Firmness. II. Action of Additives in Relation to Their Chemical Structure. C. W. Ofelt, C. L. Mehltretter, Majel M. MacMasters, F. H. Otey, and F. R. Senti. Cereal Chem. 35, 142-145 (1958).

92. *Enzyme and Nucleic Acid Content of Thrombocytes from Normal and Thrombocytopenic Calves. N. S. Mizuno, J. H. Sautter, and M. O. Schultze. University of Minnesota, St. Paul, Minnesota. Proc. Soc. Expt. Biol. Med. 98, 42-46 (1958).

93. *Experimental Aplastic Anemia of Calves. M. O. Schultze, T. A. Seto, N. S. Mizuno, F. W. Bates, V. Perman, and J. H. Sautter. University of Minnesota, St. Paul, Minnesota. Internatl. Soc. Hematology. Proc. 6th Internatl. Cong. 794-801, Boston, 1956. Grune and Stratton, New York (1958).

†Reprints are not available for distribution.

94. Glyceride Structure of Vegetable Oils by Countercurrent Distribution. III. Safflower Oil. C. R. Scholfield and H. J. Dutton, J. Am. Oil Chemists' Soc. 35, 493-496 (1958).

95. *† Inactivation Studies on the Soybean Hemagglutinin. I. E. Liener. University of Minnesota, St. Paul, Minnesota. J. Biol. Chem. 233(2), 401-405 (1958).

96. Influence of Heat on Oxidative Stability and on Effectiveness of Metal-Inactivating Agents in Vegetable Oils. Patricia M. Cooney, C. D. Evans, A. W. Schwab, and J. C. Cowan. J. Am. Oil Chemists' Soc. 35, 152-156 (1958).

97. Labeling of Fatty Acids by Exposure to Tritium Gas. H. J. Dutton, E. P. Jones, L. H. Mason, and R. F. Nystrom. Chemistry and Industry, 1176-1177 (1958).

98. Modification of Zein by Deamidation. L. L. McKinney and V. L. Johnsen. Trans. Illinois State Acad. Sci. 50, 90-95 (1957).

99. Modified Indophenol-Xylene Extraction Method for the Determination of Ascorbic Acid in Soybeans. F. B. Weakley and L. L. McKinney. J. Am. Oil Chemists' Soc. 35, 281-284 (1958).

100. Periodate-Permanganate Oxidation for Determining Location and Amount of Unsaturation in Monounsaturated Fatty Acids. E. P. Jones and J. A. Stolp. J. Am. Oil Chemists' Soc. 35, 71-76 (1958).

101. Pilot-Plant Preparation of Edible Safflower Oil. R. E. Beal, Helen A. Moser, and O. L. Brekke. J. Am. Oil Chemists' Soc. 35, 97-99 (1958).

102. *Polymers and Copolymers of Hydronopyl Acrylate. C. S. Marvel and R. Schwen. University of Illinois, Urbana, Illinois. J. Polymer Sci. 38, 27-37 (1958).

103. Preparation of 3-Stearoyl-D-Glucose--A Bread Softening Agent. F. H. Otey and C. L. Mehltretter. J. Am. Oil Chemists' Soc. 35, 455-457 (1958).

104. Progress in Research on Soybeans. A. K. Smith. Soybean Dig. 18(12), 14-17 (1958).

105. Progress in the Technology of Soybeans. J. C. Cowan. "Progress in the Chemistry of Fats and Other Lipids. Vol. 5. Advances in Technology," Chapter 3, pp. 51-90, Pergamon Press, London. 1957. (Publ. 1958).

106. Promising Materials for Protective Coatings. Vinyl Ethers of Polyunsaturated Fatty Alcohols. H. M. Teeter, L. E. Gast, and J. C. Cowan. Ind. Eng. Chem. 50, 1703-1704 (1958).

107. Reactions of Conjugated Fatty Acids. VI. Selenium Catalysis, A Method for Preparing Diels-Alder Adducts from Cis,Trans-Octadecadienoic Acid. H. M. Teeter, E. W. Bell, J. L. O'Donnell, M. J. Danzig, and J. C. Cowan. J. Am. Oil Chemists' Soc. 35, 238-240 (1958).

108. Reactions of Conjugated Fatty Acids. VII. Catalytic Cyclization and Aromatization of Cis,Trans-Octadecadienoic Acid with Selenium. H. M. Teeter, E. W. Bell, and M. J. Danzig. J. Org. Chem. 23, 1156-1158 (1958).

109. Reactions of Conjugated Fatty Acids. VIII. Dibasic Acids by Hydrogenation and Oxidative Cleavage. C. R. Scholfield, E. P. Jones, J. A. Stolp, and J. C. Cowan. J. Am. Oil Chemists' Soc. 35, 405-409 (1958).

110. Reactions of Unsaturated Fatty Alcohols. V. Preparation and Properties of Some Copolymers of Unsaturated Fatty Vinyl Ethers with Lower Alkyl Vinyl Ethers. L. E. Gast, Wilma J. Schneider, J. L. O'Donnell, J. C. Cowan, and H. M. Teeter. J. Am. Oil Chemists' Soc. 35, 347-350 (1958).

111. Reactions of Unsaturated Fatty Alcohols. VI. Guerbet Reaction of Soybean and Linseed Alcohols. L. E. Gast, E. D. Bitner, J. C. Cowan, and H. M. Teeter. J. Am. Oil Chemists' Soc. 35, 703-707 (1958).

112. *Reactivity Ratios of Vinyl Esters of Aliphatic Acids and Some Common Vinyl Monomers. C. S. Marvel and W. G. DePierri. University of Illinois, Urbana, Illinois. J. Polymer Sci. 28, 39-58 (1958).

113. Selective Hydrolysis of Soybean Oil Phosphatides. R. E. Beal. J. Am. Oil Chemists' Soc. 35, 681-684 (1958).

114. Soybean Utilization Research. J. C. Cowan. Cotton Gin and Oil Mill Press 59, 7, 27-28 (1958).

115. Studies on the Protein in Soybean Hypocotyl. J. J. Rackis, A. K. Smith, and H. A. Sasame. Arch. Biochem. and Biophys. 78, 180-187 (1958).

116. Two-Compartment Hollow Prism. E. H. Melvin and D. Macmillan. J. Opt. Soc. Amer. 48, 581 (1958).

117. Use of United States Soybeans in Japan. A. K. Smith. ARS-71-12, April 1958. 36 pp.

118. †Vegetable Protein Isolates. A. K. Smith. "Processed Plant Protein Foodstuffs," edited by Aaron M. Altschul, Chapter 10, 249-276 Academic Press, Inc., New York. 1958.

PATENTS

(These patents are assigned to the Secretary of Agriculture.
Copies of patents may be purchased (25 cents each) from the
U. S. Patent Office, Washington 25, D. C.)

Addition Products of Conjugated Fatty Acids and Acetylene Carboxylic Acid.
H. M. Teeter and M. J. Danzig. U. S. Patent 2,819,299. January 7, 1958.

Novel Hydantoic Acids and Their Alkyl Esters. L. L. McKinney.
U. S. Patent 2,829,157. April 1, 1958.

S-(1,2-Dichlorovinyl)-Glutathione and Methods for Its Preparation.
A. C. Eldridge and L. L. McKinney. U. S. Patent 2,849,434.
August 26, 1958.